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## About Us

NPCS is a well-known technical consultancy that focuses on Project Reports Compilation, and we have been following a tight system and procedure to assure only top quality in accordance with our clients' expectations in this rapidly increasing and changing market. We've created the list of the top projects to start your own business startups.

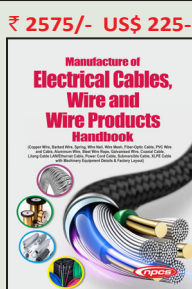
## Manufacture of Electrical Cables, Wire and Wire Products Handbook

(Copper Wire, Barbed Wire, Spring, Wire Nail, Wire Mesh, Fiber-Optic Cable, PVC Wire and Cable, Aluminum Wire, Steel Wire Rope, Galvanized Wire, Coaxial Cable, Litang Cable LAN/Ethernet Cable, Power Cord Cable, Submersible Cable, XLPE Cable with Machinery Equipment Details & Factory Layout)

The Electrical Cables, Wire and Wire Products Handbook has been written with a dual purpose in mind: the first is to provide information on the actual assembly of cables, wire, and wire products; the second is to serve as an initial reference handbook for electrical cable, wire, and wire products designers.

A successful business needs a good foundation. This handbook will provide you with the basics on electrical cables, wire and wire products. You'll learn about the different types of cables, how they're made and what goes into making a quality product. Plus, you'll get an overview of the factory layout and machinery involved in the manufacturing process. With this knowledge in hand, you'll be well on your way to starting a successful business. Explore the possibilities! Learn about production of different types of wires

The global wires and cables market size was estimated at growth rate (CAGR) of 4.4%. The global copper wire market reached a CAGR of 5.70%. The global spring market size at a CAGR of 4.5%. Global Wire Mesh Market size valued at a CAGR of 3.5%. The global fiber optic cable market a CAGR of 14.5%. The CAGR for the plastic coated steel wires market is 6.28%. The global Aluminum Wire market is forecasted to grow at a rate of 3.3%. The global steel wire rope & plastic rope market size at a CAGR of 8.0%. The global hot-dip galvanized steel wire market is expected to grow at a CAGR of 4.5%. The global coaxial cables market size is expected growth rate (CAGR) of 9%. The global ethernet cable market size a CAGR of 11.3%. The global power cables market size a CAGR of 6.8%.



**₹ 2575/- US\$ 225-** The global market for Electric Submersible Cables growing at a CAGR of 3.5%. The global XLPE Cables market size is estimated a CAGR of 5.0%.

The market demand for wire and wire products is constantly growing. This is due to the increasing need for electrical power and the ever-growing telecommunications industry. The manufacture of electrical cables, wire and wire products is a highly specialized process that requires the use of sophisticated machinery and equipment. Examples of these are extruders, crimpers, cutters, heat treaters and insulation converters. These are all machines used in the production of specific types of wire and cable such as copper wire, aluminum wire or fiber optic cable, Barbed Wire, Wire Nail, PVC Wire, Steel Wire. There are also many other types including galvanized steel wire rope, steel springs and metal mesh screens.

The Manufacture of Electrical Cables, Wire and Wire Products Handbook is a comprehensive guide everything from the conception of your business to the execution of your product. This book provides detailed instructions on how to start a business, including how to write a business plan, and how to manufacture your product.

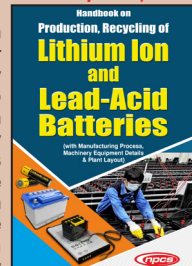
The book covers the manufacture of electrical cables, wire and wire products. It includes production of copper wire, barbed wire, spring wire nail, wire mesh, fiber-optic cable, PVC wire and cable, aluminum wire, steel wire rope, galvanized wire, coaxial cable, litang cable LAN/ethernet cable, power cord cable, submersible cable, XLPE cable with machinery equipment details & factory layout.

## Handbook on Production, Recycling of Lithium Ion and Lead-Acid Batteries

(with Manufacturing Process, Machinery Equipment Details & Plant Layout)

India is one of the world's largest battery manufacturers. Furthermore, there is an increase in global demand for batteries, and Indian battery producers are preparing to satisfy this need. The Indian battery sector has grown by 25% year over year and is expected to increase even more in the future. Batteries, such as Sealed Maintenance Free (SMF), lead-acid, or lithium-ion batteries, now power virtually everything else on the world.

**₹ 2995/- US\$ 250-**



The global lithium-ion battery market size was valued at USD 53.6 billion and is expected to grow at a compound annual growth rate (CAGR) of 19.0%. The market's expansion can be ascribed to the rising demand for lithium-ion batteries in electric vehicles (EVs) and grid storage, since they provide high-energy density and lightweight solutions. The market size is expected to grow due to an increase in the registration of electric vehicles.

The global lead-acid battery industry is growing significantly across the globe and it is likely to register

The global battery market was worth USD 108.4 billion and is predicted to increase at a CAGR of 14.1%. The increasing demand from the automotive application is responsible for the market's rise. Rechargeable batteries are utilised in non-rechargeable batteries and electric vehicles in the automobile industry. The rising global popularity of consumer electronics is expected to increase the use of lithium-ion batteries as a product category. Portable electronics, such as LCD displays, smartphones, tablets, and wearable devices like fitness bands, are in high demand, increasing market growth. Because of technical developments in terms of increased efficiency, cost-effectiveness, and product innovation, the market is predicted to rise significantly. Battery demand is likely to be driven by strict emission requirements imposed by government agencies in industrialized countries such as the United States and the United Kingdom, as well as an increasing focus on fuel efficiency.

The demand for lithium-ion batteries is predicted to increase by more than 500 percent in the future. Many predictions suggest that demand will outpace supply, virtually assuring a price increase. All of the businesses in this field have unique opportunities to invest in the future of energy storage and transportation.

a CAGR of 5.2% during the forecast period. Growing SLI applications in the automobile sector, increase in renewable energy output, and rising demand for energy storage devices are some of the causes driving up demand for lead-acid batteries. As the telecom industry expands in nations like the United States, Brazil, India, and the United Kingdom, there is a growing demand for UPS systems as a backup power source, resulting in a higher usage of lead-acid batteries as a cost-effective energy source.

The book covers a wide range of topics connected to Batteries, as well as their manufacturing processes. It also includes contact information for machinery suppliers, as well as images of equipments.

A complete guide on Production, Recycling of Lithium Ion and Lead-Acid Batteries manufacture and entrepreneurship. This book serves as a one-stop shop for everything you need to know about the Battery manufacturing industry, which is ripe with opportunity for manufacturers, merchants, and entrepreneurs. This is the only book that covers Production, Recycling of Lithium Ion and Lead-Acid Batteries in depth. From concept through equipment procurement, it is a veritable feast of how-to information.

## Setup Red Oxide Pigment Manufacturing Unit

**R**ed oxide pigment, also known as ferric oxide, is a versatile and highly sought-after product in various industries. It is a naturally occurring mineral compound that is typically a dark red color, but can also be found in shades of brown, orange, and yellow. Red oxide pigment is primarily used as a colorant in paints, coatings, and plastics, but it also has applications in ceramics, rubber, textiles, and even cosmetics. One of the main advantages of red oxide pigment is its durability and resistance to fading. It is highly

stable and does not easily break down when exposed to sunlight or harsh environmental conditions, making it ideal for outdoor applications.

### Future Opportunity in Red Oxide Pigment Business?

The demand for this versatile colorant is only expected to grow, thanks to its wide range of applications and the increasing emphasis on sustainability in various industries. With the construction and automotive sectors booming, there will be a continuous need for red oxide pigment in paints, coatings, and plastics. As technology advances, new innovations and uses for red oxide pigment will emerge. As an entrepreneur, starting a business in this field allows you to position yourself at the forefront of these future opportunities.

### Indian Market Outlook

The Indian market for red oxide pigment is a promising and lucrative one. With the booming construction industry and the increasing emphasis on sustainable products, the demand for red oxide pigment is expected to skyrocket in the coming years. The construction sector in India is experiencing significant growth, with numerous infrastructure projects and real estate developments taking place. Red oxide pigment is an essential component in construction materials such as paints, coatings, and concrete. With the increasing focus on sustainability and eco-friendly practices, the demand for red oxide pigment as a natural colorant is also on the rise.

### Conclusion

The demand for red oxide pigment is constantly growing, driven by the booming construction and automotive industries. With the increasing emphasis on sustainable and eco-friendly products, there is a growing need for natural pigments like red oxide. This presents a great opportunity for entrepreneurs to enter the market and capitalize on this growing trend.

### PROJECT COST ESTIMATE

#### CAPACITY

Red Oxide Pigment	: 200 MT Per Day
Plant & Machinery	: ₹ 5081 Lakhs
Cost of Project	: ₹ 6945 Lakhs
Rate of Return	: 27%
Break Even Point	: 57%

## Start Silicon Wafers Business

**from Electronic Grade Silicon Ingots  
(using Metallurgical Grade Silicon)**

**S**ilicon wafers are crucial components in the manufacturing of electronic devices. These thin, disc-shaped slices of silicon serve as the building blocks for microchips, solar cells, sensors, and other advanced technologies. Traditionally, electronic grade silicon has been the preferred material for producing high-quality silicon wafers. However, in recent years, there has been a growing trend of using metallurgical grade silicon due to its lower cost and increased availability.

### Uses of Silicon Wafers

- Foundation of Semiconductor Devices
- Electronic Integration
- Photovoltaic Solar Cells
- Research and Development
- Quality Control and Testing
- Microelectronics Manufacturing
- Semiconductor Industry Growth

### Silicon Wafers Market

Silicon Wafer Market is expected to grow at a CAGR of 3.19% during the forecast period. Global silicon wafer market is expected to reach US\$ 16.98 Bn by 2029. The global Silicon Wafer Market is anticipated to be boosted by the rising cost of silicon wafers, their rising demand for use in the production of chips or microchips used in electronic devices, and the growing use of silicon wafers to monitor equipment status and process conditions in semiconductor manufacturing processes. North America is expected to have a Substantial Semiconductor Silicon Wafer Market Share. The major factors driving the demand for the semiconductor industry is growing adoption of smart devices and growing popularity of industrial automations.

### Future Projections: The Continued Demand for Silicon Wafers

As technology continues to advance at a rapid pace, the demand for silicon wafers shows no signs of slowing down. The future projections for the silicon wafer industry are incredibly promising. One key factor driving the continued demand for silicon wafers is the ongoing development and adoption of emerging technologies. Silicon wafers, with their ability to enhance the functionality and performance of these technologies, will remain essential. Additionally, the global push for sustainable energy solutions is expected to fuel the demand for silicon wafers used in solar panels. As more people can afford smartphones, laptops, and other electronic devices, the production demands for these devices will rise, leading to a higher need for silicon wafers.

### Conclusion

The future of the silicon wafer industry looks bright. With the constant advancements in technology and the growing demand for high-performance electronic devices, silicon wafers will continue to play a crucial role in shaping our tech-driven world. The industry shows no signs of slowing down, and the hidden beauty of silicon wafers will continue to drive the booming business for years to come.

### PROJECT COST ESTIMATE

#### CAPACITY

Silicon Wafers	: 20 MT Per Day
Plant & Machinery	: ₹ 2505 Lakhs
Cost of Project	: ₹ 4235 Lakhs
Rate of Return	: 28%
Break Even Point	: 54%

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**L**inear Alkyl Benzene (LAB) is a versatile chemical compound that plays a vital role in various industries. Essentially, LAB is a type of organic compound that consists of a linear chain of alkyl groups attached to a benzene ring. It is primarily produced through the process of alkylation, where benzene is combined with olefins or paraffins. LAB has gained prominence due to its excellent detergent properties. It is widely used in the manufacturing of laundry detergents, dishwashing liquids, and household cleaning products.

#### Examining the Market Scope and Profitability of a LAB Business

Entrepreneurs considering entering the Linear Alkyl Benzene (LAB) industry will be pleased to know that the market scope and profitability for a LAB business is quite promising. As the demand for LAB continues to rise in various industries, there is a significant opportunity for entrepreneurs to capitalize on this growing market. One of the key factors driving the market scope of a LAB business is the increasing demand for household and industrial cleaning products. With more people

## Start Production of Linear Alkyl Benzene

prioritizing cleanliness and hygiene, the demand for detergents and cleaning agents that contain LAB is expected to grow. Additionally, LAB's applications in industrial sectors such as metalworking fluids and agricultural chemicals further contribute to the market scope. In terms of profitability, starting a LAB business can be a lucrative venture.

#### Global Market Outcome

The global linear alkyl benzene market size was valued at USD 8.16 billion in 2022 and is anticipated to grow at a compound annual growth rate (CAGR) of 4.4% from 2023 to 2030. Rising demand for household and industrial cleaners is expected to stimulate the growth of the

market. Increasing consumer spending is also anticipated to work in favor of the market. There is an increased demand for liquid soaps and detergents as consumers are shifting away from conventional soaps and detergents. Liquid detergents have higher surfactant levels per wash load compared to powder detergents. Liquids detergents are relatively costlier than conventional ones and consumers have been observed to pay that higher price for a premium product due to their increasing spending patterns. This trend is likely to drive the demand during the forecast period.

#### Conclusion

Starting a linear alkyl benzene business presents a promising opportunity to enter the chemical industry and capitalize on the growing demand for LAB in various sectors.

#### PROJECT COST ESTIMATE

##### CAPACITY

Linear Alkyl Benzene	: 20 MT Per Day
Plant & Machinery	: ₹ 340 Lakhs
Cost of Project	: ₹ 832 Lakhs
Rate of Return	: 25%
Break Even Point	: 68%

**B**lood collection tubes, also known as Vacutainers, are essential tools used in the medical field for collecting and storing blood samples. These tubes are specially designed to maintain the integrity of the blood sample and ensure accurate test results. They come in various sizes and types, each serving a specific purpose in the collection and analysis process. The basic structure of a blood collection tube consists of a plastic or glass tube with a rubber stopper at the top. The stopper is punctured by a needle during the blood collection process, allowing the blood to flow into the tube.

#### The Growing Demand for Blood Collection Tubes in the Healthcare Sector

One of the primary reasons for the increasing demand for blood collection tubes is the rise in chronic diseases and the need for regular blood testing. Conditions such as diabetes, cardiovascular diseases, and cancer require frequent monitoring of blood parameters, making blood collection tubes a necessity. Additionally, with the growing aging population, there is an increasing need for routine blood tests to monitor overall health and identify potential health issues. The COVID-19 pandemic has also contributed to the surge in demand for blood collection tubes. As the virus continues to spread, the need for accurate and timely testing has become paramount. Vacutainers enable healthcare professionals to collect samples efficiently, minimizing the

## Start Production of Blood Collection Tubes (Vacutainer)

risk of contamination and ensuring reliable test results. Overall, the growing demand for blood collection tubes in the healthcare sector is driven by the need for accurate diagnostics, the rise in chronic diseases, advancements in medical technology, and the ongoing global health crisis.

#### Global Market Outlook

Blood Collection Tubes Market size is estimated to reach \$2.47 billion by 2027, growing at a CAGR of 5.1% during the forecast period 2022-2027. Blood collection tubes are sterile glass or plastic tubes with a vacuum within expediting the draw of a predetermined volume of liquid. Most typically utilized to accumulate blood samples in venipuncture, they are planned for the accumulation, transfer, and processing of skin puncture blood. The surging count of surgeries requiring the application of heparin tubes owing to different conditions and accidents is set to drive the Blood Collection Tubes Market. The Asia-Pacific region is estimated to be the region

with the fastest CAGR rate over the forecast period 2022-2027. This growth is owing to factors like a boost in government backing and the surging progress in blood collection technology in the Asia-Pacific region. The expanding population of the elderly and the increasing need for blood transfusion for the treatment of distinct hematological ailments requiring the application of EDTA tubes are further fuelling the progress of the Blood Collection Tubes Market in the Asia-Pacific region.

#### Conclusion

Starting a blood collection tube business presents a unique blend of profitability, innovation, and meaningful contribution to the healthcare industry. It is an entrepreneurial venture that holds immense potential for success and making a difference.

#### PROJECT COST ESTIMATE

##### CAPACITY:

<b>Blood Collection Tubes (Vacutainer)</b>	
13x100 with EDTA	: 96,000 Nos. Per Day
<b>Blood Collection Tubes (Vacutainer)</b>	
13x75 Plain	: 96,000 Nos. Per Day
Plant & Machinery	: ₹ 464 Lakhs
Cost of Project	: ₹ 985 Lakhs
Rate of Return	: 32%
Break Even Point	: 53%

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# Start Potato Flakes Manufacturing Business

**P**otato flakes are a type of dehydrated potato product that has gained immense popularity in recent years. Made from cooked and mashed potatoes, they are processed to remove water and create a powder-like consistency. This convenient and versatile ingredient can be rehydrated with water or other liquids to create mashed potatoes or used as a thickening agent in soups, sauces, and gravies.

## How to Produce Potato Flakes?

It all begins with the careful selection of high-quality potatoes, which are then peeled, cooked, and mashed. This mash is then dehydrated through a specialized drying process, which removes the moisture and transforms it into fluffy potato flakes. The dehydration process involves exposing the mashed potatoes to hot air, which evaporates the water content, leaving behind the dehydrated flakes. This process helps extend the shelf life of the potato flakes while retaining their nutritional value. Once dried, the potato flakes are carefully packaged and distributed for commercial and household use.

## Uses and Applications of Potato Flakes

- Thickening Agent
- Baking
- Casseroles
- Coatings and Breading
- Potato Pancakes
- Baby Food
- Snack Foods
- Gluten-Free Recipes
- Food Storage and Emergency Preparedness
- Soufflés and Puddings
- Pet Food

## Global Market Outlook

The global market value for the potato flakes market was USD 21,328.3 Mn in 2022 and is expected to grow at a compound annual growth rate (CAGR) of 5.3 % from 2022 to 2032. The global market for potato flakes has witnessed a remarkable surge in recent years, driven by a combination of factors. The demand for convenient and versatile food products has propelled the

growth of the potato flakes market, with consumers embracing these dehydrated flakes as a staple ingredient in their kitchens. One key factor behind the market's expansion is the increasing adoption of convenience foods worldwide. As more individuals seek quick and easy meal options, the ease of preparation offered by potato flakes has made them a go-to choice.

## Conclusion

If you're looking for a unique and versatile product to start a business with, potato flakes should be at the top of your list. The reason to consider starting a potato flakes business is the low startup costs. Compared to other food-related businesses, potato flakes require minimal equipment and ingredients to produce. This means that you can start small and gradually expand as your business grows.

# Bicycle Saddle & Pedals

**B**icycle saddles and pedals are two crucial components that directly impact a cyclist's riding experience. The saddle is where the cyclist sits, providing support, cushioning, and weight distribution. A comfortable saddle prevents discomfort and pain during long rides and reduces pressure on sensitive areas. Pedals, on the other hand, are the contact point between the cyclist's feet and the bike. They transfer power from the cyclist to the bike, ensuring efficient pedaling and overall performance. Pedals with good grip and durability contribute to stability and effective power transfer.

## Profiting from a Bicycle Saddle and Pedals Business?

With the booming popularity of cycling, the demand for quality bicycle saddles and pedals is on the rise. This presents a fantastic opportunity for entrepreneurs looking to enter the market and profit from the growing trend. As more people embrace cycling as a means of transportation and exercise, they are willing to invest in products that enhance their riding experience. One way to profit from a bicycle saddle and pedals business is by offering a diverse range of products to cater to different types of cyclists. Whether it's high-performance saddles and pedals for competitive riders or comfortable options for casual cyclists, providing a wide selection ensures that you can meet the needs of a diverse customer base.

Another avenue for profit is to focus on innovation and quality. Cyclists are constantly seeking out new technologies and materials that enhance performance, comfort, and durability. By staying ahead of the curve and offering cutting-edge designs and materials, you can attract customers who are willing to pay a premium for top-of-the-line products.

By staying ahead of the curve and offering cutting-edge designs and materials, you can attract customers who are willing to pay a premium for top-of-the-line products.

## Global Market Outlook

Bicycle Saddle Market size was valued at USD 2.3 billion in 2022 and is estimated to register a CAGR of over 7% between 2023 and 2032. Cyclists globally are increasingly seeking comfortable and ergonomic saddle designs to reduce discomfort and pain during long rides. Saddle manufacturers are continuously escalating their efforts to create designs that provide better support and reduce pressure points, thus creating a favorable growth outlook for the bicycle saddle industry.

## Conclusion

The startups costs for a bicycle saddle and pedals business are relatively low compared to other industries. With a modest investment, you can source high-quality products, set up an online store or a brick-and-mortar shop, and start serving the cycling community. Overall, starting a bicycle saddle

## PROJECT COST ESTIMATE

### CAPACITY:

<b>Saddle</b>	: 7,000 Unit Per Day
<b>Pedals</b>	: 10,000 Unit Per Day
<b>Plant &amp; Machinery</b>	: ₹ 208 Lakhs
<b>Cost of Project</b>	: ₹ 575 Lakhs
<b>Rate of Return</b>	: 31%
<b>Break Even Point</b>	: 54%

and pedals business presents an exciting opportunity to turn your passion for cycling into a profitable and fulfilling business venture

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**L**iquid caustic soda, also known as sodium hydroxide, is a powerful and versatile chemical that plays a crucial role in various industries. It is a strong alkaline substance that is highly soluble in water, making it ideal for a wide range of applications. With its corrosive nature, liquid caustic soda can dissolve many materials, making it a valuable ingredient in manufacturing, cleaning, and water treatment processes.

#### Benefits of Starting this Industry

- **Starting a Liquid Caustic Soda industry** can offer several benefits, both from a business and industrial perspective. Here are some of the advantages of starting such an industry:
- **High Demand:** Caustic soda, also known as sodium hydroxide (NaOH), is a versatile chemical used in various industries, including pulp and paper, textiles, chemicals, and petroleum refining.
- **Diverse Applications:** Liquid caustic soda has a wide range of applications, including as a pH regulator, cleaning agent, and in the production of various chemicals.

## Start Liquid Caustic Soda Industry (from Caustic Flakes)

- **Strong Profit Margins:** The production of caustic soda can yield strong profit margins due to its high demand and relatively low production costs.
- **Innovation and Research:** Continuous research and development in the caustic soda industry can lead to the discovery of new applications and products, expanding your business opportunities.

#### Global Market Outlook

The global caustic soda market size reached 82.0 Million Tons in 2023. Looking forward, the market to reach 94.0 Million Tons by 2032, exhibiting a growth rate (CAGR) of 1.5% during 2024-2032. The expansion of the global textile industry is increasing the utilization of caustic soda for fabric processing and dyeing. Additionally, the growing

adoption of caustic soda in the burgeoning chemical industry is positively influencing the market. The Asia Pacific region exhibits a clear dominance in the caustic soda market due to rapid urbanization and the expansion of various

industries in the region.

#### Conclusion

Liquid caustic soda is a vital ingredient in the success of many industries. Its versatility, effectiveness, and wide range of applications make it an indispensable chemical. As industries continue to grow and evolve, the demand for liquid caustic soda is expected to remain high, fueling the continued success of these industries.

#### PROJECT COST ESTIMATE CAPACITY

Liquid Caustic Soda Lye 48% :	80 MT Per Day
Plant & Machinery	: ₹ 305 Lakhs
Cost of Project	: ₹ 888 Lakhs
Rate of Return	: 29%
Break Even Point	: 63%

**S**afety shoes are a type of footwear that are designed to provide protection to the wearer's feet in hazardous or risky environments.

Unlike regular shoes, safety shoes are specifically engineered to minimize the risk of injuries caused by falling objects, electrical hazards, slippery surfaces, and other occupational hazards. They are equipped with features such as reinforced toe caps, puncture-resistant soles, and anti-slip technology to ensure the wearer's safety and reduce the chances of accidents or injuries.

#### Benefits of Safety Shoes

- Toe Protection
- Impact Resistance
- Puncture Resistance
- Slip Resistance
- Electrical Hazard Protection
- Chemical Resistance
- Comfort and Support
- Durability
- Compliance with Regulations
- Reduced Risk of Foot Injuries

#### Global Market Prospects

The industrial safety footwear market is set to thrive at a steady CAGR of 7.4% during the forecast period. The market holds a share of US\$ 11.6 billion in 2023 while it is anticipated to cross a value of US\$ 23.6 billion by 2033. The

## Start Production of Safety Shoes

restoration of industrial spaces is the key factor that pulls the industry to a halt. The industry worker's rights are also likely to fuel the demand for industrial safety footwear. Furthermore, advanced insulation and protective layer technologies are leading in the market. The construction and agricultural industry operations are likely to flourish the demand for industrial safety footwear.

#### Conclusion

If you're looking for a rewarding and profitable venture, consider entering the safety shoe industry. With the increasing demand, innovative technologies, and endless possibilities for growth, the path to success is waiting for you. Lace up your boots and step into the world of safety shoes today!

#### PROJECT COST ESTIMATE CAPACITY

Safety Shoes	: 2,000 Pairs Per Day
Plant & Machinery	: ₹ 113 Lakhs
Cost of Project	: ₹ 672 Lakhs
Rate of Return	: 28%
Break Even Point	: 63%

## Moringa Oleifera (Drumstick) Powder

**M**oringa Oleifera is the most widely cultivated species of the genus Moringa, which is the only genus in the family Moringaceae. English common names include: moringa, drumstick tree (from the appearance of the long, slender, triangular seed-pods), horseradish tree (from the taste of the roots, which resembles horseradish), ben oil tree, or benzoil tree (from the oil which is derived from the seeds).

Originated from India, moringa trees are now found in Ghana, the Philippines, Nigeria, Kenya, Rwanda, Niger, Mozambique, Cambodia and Haiti. Today, the moringa market globally is estimated at more than Rs 27,000 crore, which is expected to cross Rs 47,250 crore by 2020, growing at a rate of nine per cent per year.

The increasing awareness about the health advantages of moringa products will be one of the major factors that will have a positive impact on the global moringa products market during the forecast period. Over the years, moringa products such as moringa leaf powder have seen a growth in the sales in the global market. The rising health awareness in countries such as Europe and Americas have given rise to the increasing usage of moringa products by the consumers. This will drive the moringa products market future growth till 2022. As a whole any entrepreneur can venture in this project without risk and earn profit.

#### PROJECT COST ESTIMATE CAPACITY

Drumstick (Moringa Oleifera) Powder	: 400 Kgs / Day
Plant & Machinery	: ₹ 31 Lakhs
Cost of Project	: ₹ 71 Lakhs
Rate of Return	: 29%
Break Even Point	: 71%

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# Rice Husk based Biodegradable Cutlery Making Plant

**P**eople around the world have been early adopters of biodegradable cutlery, which has emerged as a preferable alternative to plastics. Plant biomass resources such as bagasse, rice husk, coconut coir, and others are being used to create environmentally friendly cutlery, tableware, and packaging products that are predicted to gain popularity in the coming decade.

Rice husk is a surprising robust substance that can withstand a lot of wear and is long-lasting. Rice husk cutlery is one of the most durable biodegradable silverware options, withstanding temperatures of over 100 degrees Celsius without injury. The smooth, glossy surface of this reusable tableware is created entirely of natural wax extracted from rice husks.

Biodegradable Knives, forks, chip forks, coffee stirrers, spoons, and teaspoons are among the biodegradable cutlery available. The items, which come from well-known brands like Plastico and Vegware, are all food-grade and constructed of renewable resources.

Biodegradable cutlery is made from a range of natural materials that are completely compostable and biodegradable, such as sugarcane bagasse, bamboo, paper pulp, palm leaves, agricultural waste, and other disposable materials (cornstarch-based PLA plastic is also a sustainable alternative but is not capable of breaking down on its own in normal conditions).

Environmentally friendly to the nth degree: Because it is derived from industrial waste, rice husk is a greener and healthier alternative to disposable plastic cutlery.

Rice husk cutlery is relatively long-lasting and reusable, lasting up to three years depending on temperature and care. As a result, these flatware pieces are ideal for parties, quick-service restaurants, and restaurants.

Rice husk cutlery does not melt when exposed to high heat or cold, unlike plastic silverware. This means they'll last longer than the disposable plastic ones. You can even warm them up in the microwave!

People may now enjoy their food without the embarrassment that comes with using disposable cutlery at picnics, vacations,

and at work.

Rising demand for disposable and low-cost utensils in many developing economies is fueling the growth of the biodegradable cutlery sector. They've become popular at a number of large gatherings, such as parties, rallies, and social gatherings. At a number of parties and huge events, the demand for reusable spoons and plates is constantly increasing.

In recent years, a number of social gatherings and large sporting events have attempted to popularise biodegradable tableware. Manufacturers have also released exotic designs. The biodegradable cutlery market has exploded as a result of these policies.

Biodegradable cutlery is also developing as a promising cost-effective option, according to market participants, as the use of single-use plastics has garnered criticism from a variety of quarters around the world.

Manufacturers in emerging economies are increasingly turning to e-commerce to sell premium items like rice husk dinnerware. The increasing prevalence of e-commerce in many sectors of these emerging nations has assisted the growth of the biodegradable cutlery business.

The global biodegradable cutlery market was worth USD 33.9 million in 2018, and it is predicted to grow at a 5.9% CAGR between 2019 and 2025.

Market growth is expected to be boosted by rising public awareness of the detrimental impacts of non-biodegradable garbage.

Non-biodegradable plastic has been outlawed by the government, with strict controls in place. Growth is likely to be fueled by government efforts that promote the business, as well as growing consumer awareness of the harmful implications of non-biodegradables.

## PROJECT COST ESTIMATE

CAPACITY	
Biodegradable Cutlery (Per Set 6 Pcs. Flatware)	: 1,852 Sets Per Day
Plant & Machinery	: ₹ 28 Lakhs
Cost of Project	: ₹ 222 Lakhs
Rate of Return	: 27%
Break Even Point	: 52%

# Start Manufacturing Business of IV Fluids (BFS Technology)

**I**V fluids, also known as intravenous fluids, are solutions that are administered directly into the veins through a tube or catheter. These fluids are commonly used in medical settings to maintain hydration, replenish electrolytes, deliver medications, and provide nutrition. IV fluids can be a life-saving treatment in many situations, such as severe dehydration, surgical procedures, and critical illnesses. They can also be used to help manage chronic conditions, like kidney disease or cancer, or to support recovery after an injury or illness.

## How Can Make a Lot of Money With a BFS Technology Business?

If you're considering starting a business in the BFS technology industry, you might be wondering how you can make a lot of money from it. The good news is that BFS technology is in high demand across a variety of industries, including pharmaceuticals, food and beverage, and cosmetic products. One way to make a lot of money with a BFS technology business is by tapping into the growing market for IV fluids.

## Future of the IV Fluid Industry

The IV Fluid market is expected to continue to grow in the future as healthcare services are expanding globally. The increase in hospital admissions and surgical procedures are creating a greater need for IV fluids. Furthermore, the ongoing development of new and innovative products in the IV Fluid market is predicted to further increase the demand.

## Global Market Outlook

The global intravenous solutions market size was valued at \$11,857.7 million in 2021, and is projected to reach \$26,558.4 million by 2031, registering a CAGR of 8.3% from 2022 to 2031. The global market has been categorized into North America, Asia Pacific, Middle East & Africa, Latin America, and Europe. North America dominated the global market in 2021 and accounted for the maximum share of more than 40.7% of the overall revenue in the same year.

## Conclusion

Starting a BFS technology business offers many opportunities to make a lot of money. With the growing market for IV

fluids and the potential to expand your product offerings to other industries, the possibilities are endless. It's a wise investment for anyone looking to capitalize on the benefits of BFS technology and grow their business in the future.

## PROJECT COST ESTIMATE

<b>CAPACITY:</b>	
IV Fluids (500 ml Size Pack)	: 78,000 Packs Per Day
Plant & Machinery	: ₹ 744 Lakhs
Cost of Project	: ₹ 1263 Lakhs
Rate of Return	: 27 %
Break Even Point	: 51 %

**Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :**

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## A Business Plan for Wire Nails

**W**ire nails are a type of fastener typically used for construction and carpentry projects. These nails are made from steel wire that is hardened and cut into various sizes. Nails can also be made from other metals such as brass or aluminium. Wire nails are used in many industries, from furniture making to automotive.

### Benefits and Applications

Wire nails have a wide variety of applications. They are commonly used in carpentry projects, including framing, sheathing, trim work, flooring, cabinetry, and more. They are also ideal for securing decking materials and can be used to attach shingles, siding, and roofing materials. In addition to these uses, wire nails can also be used

for industrial applications such as attaching lintels and reinforcing steel beams.

### Scope for Startups in the Wire Nails Industry

The wire nails industry is an attractive option for aspiring entrepreneurs looking to break into the manufacturing sector. With the global demand for wire nails expected to remain strong, there are several opportunities for startups in the sector. Firstly, there is the potential for developing innovative products and technologies within the wire nails industry. For example, new types of wire nails can be designed to meet different requirements of customers or to be used in specific applications.

### Indian Market Outlook

The Indian wire nail industry is one of the fastest-growing sectors in India. The market for wire nails in India is estimated to be worth Rs 4000 crores and is projected to grow at a CAGR of more than 8%.

### Global Market Outlook

The global market for wire nails is growing

rapidly, with the estimated value of the industry increasing by over \$5 billion in 2020. The increasing demand for wire nails has been driven by a range of factors, including rising home renovation and construction activities as well as the booming e-commerce sector.

### Conclusion

Wire nails have been around for centuries, but the business of manufacturing and selling them has recently seen a dramatic boom. This is due in part to the increase in demand for construction projects and home improvement projects. With the current popularity of wire nails, it is clear that this business is here to stay and will continue to be a booming industry.

### PROJECT COST ESTIMATE

#### CAPACITY

Wire Nails	: 48,000 MT Per Annum
Plant & Machinery	: ₹ 18 Crores
Cost of Project	: ₹ 26 Crores
Rate of Return	: 27 %
Break Even Point	: 65 %

## Lucrative Business of Steel Containers (Cargo Containers)

**C**ontainerized shipping has changed the way that goods and materials are transported, but it can also take a while to learn how it all works. Cargo containers are the most efficient form of transportation when it comes to moving bulk loads over long distances. These sturdy metal boxes may look like something out of Star Wars, but they're actually an economical and environment-friendly way to ship goods across the globe, especially when compared to transporting by road or air freight services.

The cargo container industry produces a lot of intermodal containers each and every year. They are used to transport goods all over the world. About 180 million container loads crisscross the oceans each year in about 5000 container ships. International shipping of containerized commodities is indispensable for global trading firms to thrive in the increasingly competitive economic environment.

The global Shipping Containers Market was accounted for US\$ 10,350.1 Mn in terms of value and 306,324 Thousand Units in 2019 and is expected to grow at CAGR of 5.9% for the period 2020-2027. Increasing speed, reliability, and safety of containerization have compelled companies to opt for containers to ship their goods.

### PROJECT COST ESTIMATE

#### CAPACITY

Cargo Containers (Size 20 Feet)	: 34 Nos Per Day
Plant & Machinery	: ₹ 3.21 Cr
Cost of Project	: ₹ 18.13 Cr
Rate of Return	: 28%
Break Even Point	: 52%

## Growing Business of Animal Feed (Cattle, Poultry Broiler, Pig & Fish Feed)

**A**nimal feed is the food that is supplied to domestic animals, especially livestock, while they are being cared for. The two most prevalent categories are fodder and forage. Feed is commonly referred to as fodder when the word feed is used alone. Animal feed is an important aspect of the animal agricultural process, and it is usually the most expensive part. Farms typically try to save money by growing their own food, grazing their animals, or supplementing expensive feeds with less expensive alternatives, such as food waste from beer production.

Feed that delivers a well-balanced diet is critical to animal health. Some modern agricultural practises, such as grain-feeding cows or keeping them in feedlots, are harmful to both the environment and the animals. Increased maize or other grain in cow diets, for example, leads their microbiomes to become more acidic,

impairing their immune systems and making cows more likely E.coli vectors. Other feeding practises, on the other hand, may be beneficial to animals. For example, feeding cows particular types of seaweed reduces methane generation, cutting greenhouse gas emissions from the meat industry.

The animal feed business is predicted to grow at a CAGR of 4.90 percent from US\$345.434 billion in 2020 to US\$460.322 billion in 2026. Animal feeds are products that are used to improve the health of animals. Different doses of feed are given depending on the animal. Rapid urbanisation and increased meat and other end-product consumption, such as milk and eggs, in various places will fuel the animal feed market development potential over the forecast period. The feed aids in the expansion of the animal's capacities, accelerating growth and weight gain, and enhancing immunity by giving enriched nutrients with the feedstuff.

### PROJECT COST ESTIMATE

#### CAPACITY:

Cattle Feed	: 33.6 MT Per Day
Poultry Broiler Feed	: 16.8 MT Per Day
Fish Feed	: 2.8 MT Per Day
Pig Feed	: 2.8 MT Per Day
Plant & Machinery	: ₹ 160 Lakhs
Cost of Project	: ₹ 1488 Lakhs
Rate of Return	: 24%
Break Even Point	: 48%

**Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :**

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**Start  
Paracetamol  
Manufacturing Unit**

**P**aracetamol is a popular over-the-counter pain reliever and fever reducer medication that is widely used across the globe. Also known as acetaminophen, paracetamol has become an integral part of many people's medicine cabinets. It is available in various forms, including tablets, capsules, powders, and liquid suspensions. The drug's active ingredient works by blocking the production of prostaglandins, which are substances responsible for causing pain and inflammation. As a result, paracetamol provides effective relief from aches and pains, such as headaches, toothaches, menstrual cramps, and muscle soreness.

**Advantages of Launching This Business**

- **Government Support:** To lessen reliance on imports, several governments promote domestic manufacture of necessary medications like paracetamol.

**PROJECT COST ESTIMATE  
CAPACITY**

Paracetamol Powder :	7 MT Per Day
Plant & Machinery :	₹ 274 Lakhs
Cost of Project :	₹ 779 Lakhs
Rate of Return :	27 %
Break Even Point :	64 %

- **Growing Health Consciousness:** People are becoming more proactive and aware of their health, which has encouraged self-medication for mild conditions. This pattern may increase demand for OTC medications like paracetamol.
- **Brand-Building Potential:** Although paracetamol is a generic medication, there is a chance to brand it with dependability, quality, or other desirable qualities.
- **Diverse Product Options:** Selling paracetamol in tablet form is only one aspect of the industry's operations. Paracetamol is available in many different forms, such as syrup, suppository, and injectable.

**Indian Market Outlook**

The India paracetamol market is expected to grow at an impressive rate during the forecast period on account of the growing awareness among the consumers pertaining to pain management. Additionally, paracetamol is used as an active pharma-

ceutical ingredient (API) for manufacturing several generic and OTC drugs. This is expected to positively influence the market growth through FY2026. Furthermore, the widespread use of paracetamol in treating a range of conditions including headache, muscle pain, fever, arthritis, cold and cough, backache, toothache, among others is further expected to fuel the market growth over the next few years.

**Global Market Outlook**

Paracetamol Market size was valued at US\$ 1.60 Bn. in 2022 and the total Paracetamol revenue is expected to grow at 4.4% from 2023 to 2029, reaching nearly US\$ 2.20 Bn. paracetamol belongs to the analgesics group of medicines commonly known as a pain killer, and antipyretics i.e. fever-reducing agents are expected to dominate the market in 2029. The recommendation of paracetamol by doctors helps to boost the market growth for acute pain and ache. Headache and Cold is the second largest application responsible for paracetamol market growth.

**Conclusion**

Paracetamol is a trusted and effective pain reliever and fever reducer that is widely used and trusted by consumers around the world. Its affordable price, widespread availability, and minimal side effects make it a popular choice for managing common aches and pains. With its booming business, it's clear that paracetamol is here to stay.

**Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :**

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# SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

## EACH DETAILED PROJECT REPORT (BUSINESS PLAN) CONTAINS



**BEGINNING :** Project Introduction, Brief History of the Product, Properties, BIS (Bureau of Indian Standard) Specifications & Requirements, Uses & Applications.

**MARKET SURVEY :** Present Market Position, Expected Future Demand, Statistics of Imports & Exports, Export Prospect, Names and Addresses of Existing Units (Present Manufactures).

**PLANT & MACHINERY :** List of Plant & Machineries, Miscellaneous Items and Accessories, Instruments, Laboratory Equipments and Accessories, Plant Location, Electrification, Electric Load and Water, Maintenance, Suppliers/Manufacturers of Plant and Machineries.

**RAW MATERIAL :** List of Raw Materials, Properties of Raw Materials, Availability of Raw Materials, Required Quality of Raw Materials, Cost/Rates of Raw Materials.

**MANUFACTURING TECHNIQUES :** Formulae Detailed Process of Manufacture, Flow Sheet Diagram.

**PERSONNEL REQUIREMENTS :** Requirement of Staff & Labour, Personnel Management, Skilled & Unskilled Labour.

**LAND & BUILDING :** Requirement of Land Area, Rates of the Land, Built up Area, Construction Schedule, Plant Layout.

**FINANCIAL ASPECTS :** Cost of Raw Materials, Cost of Land & Building, Cost of Plant & Machineries, Fixed Capital Investment, Working Capital, Project Cost, Capital Formation, Cost of Production, Profitability Analysis, Break Even Point, Cash Flow Statement for 5 to 10 Years, Depreciation Chart, Conclusion, Projected Balance Sheet, Land Man Ratio.

- Prepared by highly qualified and experienced consultants and Market Research and Analyst Supported by a panel of experts and computerised data bank.
- Data provided are reliable and upto date collected from suppliers/manufacturers, plants already commissioned in India.
- NPCCS Reports are very economical and immediately available on demand where as commissioned Feasibility Studies are time consuming and costly.

**FOR ASSESSING MARKET  
POTENTIAL, INVESTMENT  
DECISION MAKING  
CORPORATE  
DIVERSIFICATION  
PLANNING ETC.**

**NPCCS Engineers and Consultants have prepared Market Survey Cum Detailed Techno Economic Feasibility Report on the following products which are most viable and profitable.**

## Business Ideas: 2.5–3 Crore (Plant and Machinery) : Selected Project Profiles for Entrepreneurs, Startups



- » 3-chloropivaloyl Chloride
- » 4 Star Hotel
- » Nicotine from Tobacco Waste
- » Active Zinc Oxide from Zinc Ash, Secondary Zinc Waste & EAF Dust
- » Agricultural Warehouse with Cold Storage
- » Aluminium Extrusion Plant
- » Arabic Gum
- » Automated Vehicle Scrapping and Recycling Unit
- » Baker's Yeast
- » Beer Plant
- » Bentonite Processing
- » Bicycle Manufacturing
- » Biodegradable Plastic Bags from Corn Starch



- » Calcium Bromide
- » Catenary Wires and Conductors Used in Railway Electrification
- » Chocolate
- » Cold Storage (Shrimp & Agricultural Products)
- » Dairy Farming & Dairy Products (Milk, Butter, Ghee & Paneer)
- » Dairy Farming & Dairy Products (Pasteurised Milk & Curd)
- » Dairy Farming (500 Cows)
- » Disposable Nitrile Gloves (Nitrile Examination Hand Gloves)
- » Electric PCC Poles
- » Extraction of Essential Oil from Black Pepper
- » Flexographic Printing



- » Gold and Diamond Jewellery
- » Grapes Packing for Exports with 100 MT Cold Storage
- » Graphite Crucible
- » Hexamethoxymethyl Melamine Resin (HMMM)
- » Hot and Cold Fusion of Glass
- » I.V. Fluids (BFS Technology)
- » Industrial and Pharmaceutical Grade Starch from Cassava, Maize and Tacca Roots
- » IV Fluids (BFS Technology)
- » Lithium Ion Battery (Lifepo4) Business Plan
- » Low Carbon Ferro Manganese (Medium Grade)
- » Lucrative Business Plan for Calcium Sennosides from Senna Leaves Production
- » Maize Starch and Its By Products



**Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :**

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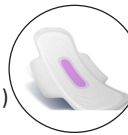
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# SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

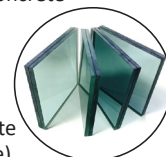
- » Manufacturing Business of Blood Bags
- » Gold and Diamond Jewellery
- » Needles for Sewing and Embroidery Machine
- » Oxygen Gas Plant (Medical Grade)
- » Pet Polyester Acoustic Panel
- » Phosphate Rich Organic Manure (PROM)
- » Ply Board from Poplar & Eucalyptus Wooden Logs
- » Precipitated Silica from Rice Husk Ash
- » Blood Collection Tubes (Vacutainer)
- » Latex & Nitrile Gloves
- » Soft Gelatin Capsules (Softgel Capsules)
- » Magnesium Sulphate
- » PVC/HDPE Pipes (Irrigation, Drinking Water, Agriculture and Sewerage)



- » Red Oxide Primer from Mill Scale
- » Roller Flour Mill with Packaging (Automatic Plant)
- » Saline and Dextrose Fluid (IV Fluid) BFS Technology
- » Sanitary Napkins
- » Sesame Seed Hulling Plant
- » Automated Vehicle Scrapping Unit
- » Auto Brake Pad and Auto Brake Shoe
- » Silicon Metal
- » Skill Development Centre
- » Sodium and Ammonium Molybdate
- » Sodium Hydrosulphite Manufacturing Business
- » Soft Gelatin Capsules



- » Solar Panel
- » Stable Bleaching Powder
- » Bamboo Fiber & Yarn
- » Active Pharmaceutical Ingredients
  - Metformin • Amoxicillin • Ibuprofen
  - Paracetamol
- » Printed Circuit Board (PCBS)
- » Mica Powder from Mica Deposits
- » Ready Mix Plaster, Block Jointer, Tile Adhesive and M 20 Concrete (Micro Concrete)
- » TMT Bars
- » Toughened Glass
- » Yeast from Molasses
- » Zinc Sulphate Monohydrate (Agriculture & Food Grade)



## Most Growing Industries to Start a New Business

**B**iofuels are transportation fuels such as ethanol and biomass-based diesel fuel that are made from biomass materials. These fuels are usually blended with petroleum fuels (gasoline and distillate/diesel fuel and heating oil), but they can also be used on their own. Using ethanol reduces the consumption of gasoline and diesel fuel made from crude oil, which can reduce the amount of crude oil imported from other countries.

Ethanol is used extensively as a solvent in the manufacture of varnishes and perfumes; as a preservative for biological specimens; in the preparation of essences and flavorings; in many medicines and drugs; as a disinfectant and in tinctures (e.g., tincture of iodine); as a fuel and gasoline additive. Ethanol has been produced from different sources in the past.

### Properties of Ethanol

- It is 10th % pure ethyl alcohol.
- It is highly flammable, non-toxic sweet smelling compound
- Ethanol has a greater affinity for water
- Highly Soluble
- Ethanol has an auto-ignition temperature of 793°F
- Some ethanol blends can conduct electricity

The global fuel ethanol market was valued at USD 78.6 billion in 2018 and expected to grow at a CAGR of 5.8% in, 2019–2025. Crude oil and natural gases are commonly used sources for

manufacturing fuels across the world. As India has very large area under sugar cultivation, we can also follow the Brazilian route (i.e. using ethanol as motor fuel) of ethanol production. Biofuel refers to the specific type of fuel derived from the natural sources such as plants, organic materials, animal wastes. Biofuel industry is gaining substantial attraction as alternative fuel for the petroleum derived fuels in order to mitigate major concerns of global warming, raised due to the fossil fuels.

The market is mostly driven by rising environmental concerns and the need to reduce GHG emissions.

Government has been promoting use of ethanol as a blend stock with main automotive fuel like petrol in line with the National Policy on Biofuels -2018 under the Ethanol Blended Petrol (EBP) Programme.

This policy envisages an indicative target of blending 20% ethanol in petrol by 2030. Department of Food & Public Distribution (DFPD) has informed that the production of ethanol varies from distillery to distillery and depends upon various factors viz. cost of raw material, conversion cost, efficiency of distillery plants etc. Several supply and demand side interventions have been initiated by the Government including enhancing scope of raw material for ethanol production and fixing remunerative prices of ethanol from different feedstocks being utilized for ethanol production.

### Lucrative Business of Ethanol as Bio-Fuel

#### PROJECT COST ESTIMATE

CAPACITY	
Ethanol	: 30.0 KL Per Day
Plant & Machinery	: ₹ 345 Lakhs
Cost of Project	: ₹ 4325 Lakhs
Rate of Return	: 24.00%
Break Even Point	: 48.48%

## Poultry and Broiler Farming

**P**oultry farming is the raising of domesticated birds such as chickens, turkeys, ducks, and geese, for the purpose of farming meat or eggs for food. Poultry are farmed in great numbers with chickens being the most numerous. Poultry meat is an important source of high quality proteins, minerals and vitamins to

balance the human diet. Specially developed varieties of chicken (broilers) are now available with the traits of quick growth and high feed conversion efficiency.

Indian poultry sector has been growing at around 8-10% annually over the last decade with broiler meat volumes growing at more than 10% while table egg at 5-6% driven by increased domestic consumption. The production capacity has responded with increased integration and large scale implementation of contract poultry farming. Thus, due to demand it is best to invest in this project.

Few Indian major players are as under

- Agritech Hatcheries & Foods Ltd.
- Amrit Hatcheries Pvt. Ltd.
- Arambagh Hatcheries Ltd.
- Arora Poultry Products Ltd.
- Balkrishna Livestock Breeders Pvt. Ltd.
- Bangalore Fort Farms Ltd.

#### PROJECT COST ESTIMATE

CAPACITY :	
Layers	: 300 Nos./Day
Broilers	: 300 Nos./Day
Eggs Tray (100 Eggs/Tray)	: 600 Nos./Day
Plant & Machinery	: ₹ 86 Lakhs
Cost of Project	: ₹ 376 Lakhs
Rate of Return	: 27%

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact :

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## Setup Plant of Wood Plastic Composite (WPC)

**W**ood Plastic Composite (WPC) is a material made of a combination of wood fiber and thermoplastic resin. WPC has become a popular building material due to its durability and sustainability, as it is made from recycled plastic and wood fibers.

### WPC Is an Ideal Material for a Variety of Applications

WPC is also a great choice for interior applications such as furniture and wall panels, due to its high resistance to moisture and wear. The material is extremely stable and can withstand changes in temperature and humidity, making it an ideal choice for use in areas such as bathrooms, kitchens, and even basements.

### Indian Market Outlook

The India wood plastic composites market reached a value of US\$ 196.7 Million in 2021. Looking forward, IMARC Group expects the market to

reach US\$ 393.5 Million by 2027, exhibiting a growth rate (CAGR) of 12% during 2022-2027.

### Global Market Outlook

The global wood plastic composites market size was estimated at USD 5.76 billion in 2021 and is expected to grow at a compound annual growth rate (CAGR) of 11.5% from 2022 to 2030. Increasing demand for wood plastic composite in manufacturing noise barriers for street construction, sheet piling for landscaping, and garden furniture is expected to surge the product demand during the forecast period.

### Conclusion

WPC has become increasingly popular in recent years due to its versatile nature and the fact that it offers a sustainable solution to traditional materials like wood. It is an ideal material for entrepreneurs looking to launch a business that involves outdoor products or structures. WPC provides a wide range of benefits, making it a smart choice for those looking for a reliable material that can withstand the elements.

### PROJECT COST ESTIMATE

	CAPACITY
Wood Plastic Composite (WPC)	: 10 Million Sq.Ft. Per Annum
Plant & Machinery	: ₹ 406 Lakhs
Cost of Project	: ₹ 790 Lakhs
Rate of Return	: 27 %
Break Even Point	: 61 %

## Start Production of Biodegradable Disposable Cups and Plates (Tableware) Using Sugarcane Bagasse

**B**agasse is the fibrous residue that remains after sugarcane or other vegetation is harvested for its juice or sap. It's usually dried, baled, and used as a renewable source of fuel or biomass energy. It is also gaining traction in the green movement as a material for sustainable, biodegradable products such as disposable plates, cups and cutlery.

### Advantages of Using Bagasse

Bagasse is completely biodegradable, which means it won't contribute to landfills or other environmental problems associated with plastic waste. In addition, the production of bagasse-based products emits less carbon dioxide than their plastic counterparts, making them more eco-friendly and sustainable.

### Global Market Signal

The biodegradable tableware market is expected to be growing at a growth rate of 6.0% for the forecast period of 2022 to 2029. The global market for biodegradable disposable cups and plates made from sugarcane bagasse has seen significant growth. This is due to increased awareness of environmental sustainability and waste reduction among consumers and the availability of various types of sugarcane bagasse tableware products in the market.

### PROJECT COST ESTIMATE

#### CAPACITY:

**Biodegradable Disposable Cups** : 333 Thousand Pcs Per Day each 9gm wt.

**Biodegradable Disposable Plates** : 187 Thousand Pcs Per Day each 16gm wt.

Plant & Machinery	: ₹ 1924 Lakhs
Cost of Project	: ₹ 2687 Lakhs
Rate of Return	: 24 %
Break Even Point	: 38 %

## PVC Wire & Cables

**P**.V.C. coated cable and wire are extensively used in all electrical linings, domestic lightings and all other purposes. The demand for PVC coating electrical wires (with rapid electrification all over the country) is increasing at a rapid rate. Considering recent export market and increase in demand from Russia and other countries, it is estimated that the export demand will remain 25 % of total demand. The present demand supply gap is 36.3 thousand Km. According to 70% of capacity utilisation, it may require additional capacity of 52 thousand Km. It indicates very good scope for new investment in power cable industry. There is a bright scope for starting new units in this field.

### PROJECT COST ESTIMATE

	CAPACITY
Plant Capacity	: 1600 Mtrs/ Day
Plant & Machinery	: ₹ 22.50 Lakhs
W. C. for 3 Months	: ₹ 86.47 Lakhs
Total Capital Investment	: ₹ 162.05 Lakhs
Rate of Return	: 26.18%
Break Even Point	: 59.65%

### Conclusion

Entrepreneurs should consider entering the biodegradable disposable cups and plates (tableware) business using sugarcane bagasse due to its numerous benefits. Not only is it environmentally friendly, but there is a growing demand for this type of product and the cost of producing it is relatively low. The use of sugarcane bagasse is becoming increasingly popular among consumers as they seek more sustainable options. This means that there is a growing demand for this type of product, making it a great opportunity for entrepreneurs looking to get into the market.

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# Setup Cashew Nut Processing Plant

**C**ashew nut processing is the process of transforming raw cashew nuts into products ready for consumption, such as roasted and salted cashews. It involves several steps including sorting, shelling, roasting, and packing. This type of processing is a crucial part of the food production chain, as it ensures that the final product is safe to eat and of the highest quality.

## Scope for Start-ups in the Cashew Nut Processing industry

The cashew nut processing industry provides a range of business opportunities for entrepreneurs and startups. With the rising global demand for cashew nuts, the industry has seen rapid growth in recent years. Cashew nut processing involves the harvesting, cleaning, sorting, shelling, grading, and packaging of raw cashew nuts. It also includes the roasting, grinding, and salting of cashew nuts to make cashew butter and other products.

## Indian Market Outlook

India processed cashew market is projected to register a CAGR of 9.33% during the forecast period (2020-2025). Plain/salted cashews can be consumed in several ways under food/beverage applications on a household basis, which is driving the market for plain/salted cashews across the country. Increased applications of plain cashew in Indian culinary, especially in desserts, is one of the key factors driving the market.

## Global Market Outlook

The global processed cashew market size was valued at US\$ 5,003.6 Mn in 2022 and is expected to grow at a compound annual growth rate (CAGR) of 5.8% from 2022 to 2032.

## Summary

Cashew nut processing is a profitable and sustainable industry, with a growing demand for the nut around the world. With the right knowledge and resources, starting a cashew nut processing business can be a rewarding endeavor.

### PROJECT COST ESTIMATE

#### CAPACITY

Cashew Nut Processing	: 4,794 Kgs Per Day
Plant & Machinery	: ₹ 6 Crores
Cost of Project	: ₹ 11 Crores
Rate of Return	: 23 %
Break Even Point	: 76 %

# Fiberglass Doors

## Surrounded Wood and Inside Filled Polyurethane Foam by Injection

**F**iberglass doors are two large molded skins with a polyurethane foam core between the skins which is a great insulator against heat and cold. They are popular for their high insulation values, low maintenance, and resistance to dents and scratches. Fiberglass is widely used for manufacturing and building in today's most demanding industries- cars, boats, pools and more, due to its ability to create molds and create custom shapes and never become distorted over time.

Commercial doors market will witness a valuation of over USD 60 billion by 2024. The demand varies depending upon the client's requirement with varied functions. Increase in consumer spending on new construction as well as renovation of existing residential & commercial buildings will drive the global doors market growth. As a whole there is a good scope for new entrepreneur to invest in this business.

### PROJECT COST ESTIMATE

#### CAPACITY

Fiberglass Doors	: 150 Nos./Day
Plant & Machinery	: ₹ 89 Lakhs
Cost of Project	: ₹ 392 Lakhs
Rate of Return	: 29%
Break Even Point	: 61%

# Recycling of Lithium Ion Battery Business

### PROJECT COST ESTIMATE

#### CAPACITY:

Copper	: 1.4 MT Per Day
Aluminium	: 0.8 MT Per Day
Graphite	: 1.8 MT Per Day
Carbon Black	: 0.3 MT Per Day
Lithium Cobalt Oxide	: 2.5 MT Per Day
Plastic	: 0.2 MT Per Day
Plant & Machinery	: ₹ 200 Lakhs
Cost of Project	: ₹ 422 Lakhs
Rate of Return	: 27%
Break Even Point	: 55%

**B**ecause of the popularity of smart phones and tablets, the demand for lithium ion batteries has surged substantially in recent years. Because these devices include hazardous materials that must be properly disposed of to avoid contamination of the environment, recycling these batteries is now more crucial than ever.

Lithium-ion batteries are becoming more prevalent. They're already used in cell phones, laptops, consumer electronics, and some industrial applications. Telecom towers, solar storage systems,

and electric vehicles are all using them. Battery specialists and environmentalists agree that lithium-ion batteries should be recycled for a variety of reasons.

According to estimates, India's yearly lithium-ion battery industry would expand at a 37.5 percent compound annual growth rate (CAGR) from now until 2030, when it will reach 132 GWh. The global lithium-ion battery market will have risen from 2.9 gigawatt-hours in 2018 to around 800 gigawatt-hours by 2030.

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